Salomon, believing that Crampton's operation rendered the exposure of the artery difficult, and the detachment of peritoneam annecessarily extensive, made his incision parallel to the internal epigastric artery, commencing an inch within the anterior superior spinons process, and terminating within an inch of the last false rib.

Hey modified the high operation hy making "an nagular continuation an iach and a half in length" ontwards; but his description is so indefinite as to leave us in doubt as to the value of this extension of the first incision.

Before proceeding to the operation which it fell to me to perform, I pat these various methods to the test upon the cadaver, and after repeated trials came to the conclusion that the following incision gave the most direct and easy access to the artery: Commence the incision just anterior to the extremity of the second false rih (eleventh) and terminate it just above the internal ring by a sharp curve inward of one inch; this incision will be about seven inches in length, and will pass about an inch and a half within the anterior saperior spinons process; the carve at the lower extremity will allow the most perfect freedom in the clevation of the peritoneam, and the complete exposure of the artery.

The second method hy incision of the peritoneam was first practised hy Gibson, and sabsequently hy Garviso, Post, and Goldsmith. It is needless to comment upon the propriety of this procedure in ordinary cases.

The following caation, given by Gathrie, in regard to raising the peritoneam, is worthy of attention: "There is a point here of great importance to recollect, and it is, that the peritoneam must be raised over without the hand being pashed hack towards the posterior wall of the abdomen hat as little as can be avoided; for there is some fat usually at that part, if there be any to be found in the body, and behind which you are very apt to get in performing the operation instead of going in the front; and if you do, it leads to the ander edge of the psoas muscle instead of the upper, and renders the operation much more difficult."

ART. II.—Carcinoma of Uterus: Extirpation. By A. F. SAWYER, M. D., San Francisco.

Mns. S., aged forty-three years, arrived here from New Orleans, in 1852. She was rather spare in habit, yet with a fair mascular development, and of a nervous, sanguine temperament. She was married in her seventeenth year, and previous to her coming to California had borne four children. There had always been long intervals between her conceptions. She has aever miscarried.

The tamonr was first noticed in her abdomen, in January, 1849, when she was recovering from her fourth confinement, after the hirth of a healthy and mature child.

My nttention was called to her easo in the early part of 1855, at which time there was found a well-defined tumonr, of about the size of the two fists, similar in form to the atterus, occapying the medina line of the abdomea, and when she was in an apright position sinking low down into the eavity of the pelvis. The form and location of the tumour, together with the general indications of the case arrived at from an examination of the rectam and vagian, especially the existence of ballottement, led to the conclusion that it was connected with the uteras, probably of a fibrous nature, and developed at the oxpense of the uterine eavity; for, otherwise, in the enlarged condition of the uteras its symmetrical shape could not be accounted for.

Her entamenin had never heen regular since her last confinement; sometimes scanty, sometimes very profuse, ocearring at indefinite intervals of from three to six weeks, and necompanied with strong hearing-down pains. At other times she suffered but little inconvenience, excepting what resulted mechanically from the position and weight of the tamour.

On the 12th of October, 1856, she was delivered of a healthy child at fall term. During the early period of gestation it was uncertain whether the growth of the uteras came from pregnancy, or was to be nttributed to an increased activity in the development of the tumoar itself. Toward the close of gestation the placental murmar and the sound of the feetal heart made her pregnancy certain. Without these signs, as the movements of the feetus were never distinct, and as there was a repeated reenreace of a sanguineous discharge from the vagina, the diagnosis would have been materially observed. As pregnancy ndvanced, however, a double tumour could be felt within the abdomen, and plainly observed by the eye after the abdominal walls became distended over the gradually calarging uterus—the womb occupying the left side and crowding the tumour to the upper and right side of the abdominal cavity; also, the condition of pregnancy seemed to stimulate the growth of the tumonr, as at the end of gestation it had become at least one-half as large again as when first examined.

Her lahonr weat on naturally and without necident, and sho made a prompt recovery. After inbour the aterus could no longer be felt, and the tamonr resumed its former position in the pelvic cavity.

With this enlarged history of the case we were compelled to nbandon the idea that the tamonr was uterine, and were rather disposed to consider it as ovarian disease. For it was not within the limits of reasonable probability that the uterns, granting it to have been thus extensively involved in stractural disease, could have sastniaed the antition of a feetus up to its fall term, even if conception were possible.

There was no indication of attachment, for the tamour could be easily

elevoted, ood moved to ond fro io the pelvic cavity. There was no morked teaderness oo pressare. It had o regular smooth outline withoot adoosities, oad the seasation to the hood was that decidedly of a solid growth. This, with the obsence of elasticity or fluctontion, seemed to indicate that it was not encysted disease.

From her last confinement up to the date of the operation, Jnne 8, 1859, the tomour gained rapidly in size, prodocing almost insupportable sensations of a drogging weight, with now and then ocote laneinating poins referred to the tumour, and extending down into the privates and thighs, ood the poticot was rapidly failing in physical vigour and strength. Her sofferings family increased to seeh an extent that, notwithstanding a full explanation of the dongers oftending operations of this character and magnitude, she hecome resolutely determined to undergo every hozard to occomplish its removal.

The poticut heiag placed noder the influence of sulphoric ether, on iocision was mode ioto the peritoceal covity, extending from a little obove the ambilicus to the pubis, io thu direction of the liceo olbo. The true cature of the disease was thee apparent, it being a large solid growth, without odlesions, embedded in the porietes, and resembling on enormous hypertrophy of the oterus. The ovories rested on either margio of the tumoar, the left natural io appearance, and the right considerably otrophied. A large curved needle, armed with a strong lighture, was then possed through the textures helow the cervix uteri, the lightures made secore, and the tumour ompotated obove the lightures. The free ends of the lighture were theo brought out of the obdoloicol wound, which was immediately closed by suthers and oddesive plaster.

Description of the Tumour.—The tumour hod oo exact resemblonce to the aterus in form, measuring $9\frac{1}{2}$ inches in its long and $7\frac{1}{2}$ inches in its short diometer, ood ohout 5 ioches through from side to side. Its surfoce was perfectly smooth, and covered with peritoaeal membrane; o large number of diloted bloodvessels ramified over the exterior of the tumour, becoming finally concentrated into the vessels of the brood ligameots. The moss removed weighed $7\frac{1}{4}$ pounds.

A section of the tumoar showed that it had its origin of the foodus of the nteras. At least the greatest hulk of the tomoor was food at the fundus, theoce extending downword over the anterior face and right margin of this organ. The posterior walls and left border were hot little eneroached open by the disease; the muscalar coat being of the nntoral thickness.

From withoot inwards the following textures were noted. 1st. Peritoneam. 2d. The nterine porietes, ohoat two lines in thickness. Theo o eyst woll of cartilaginoos structure, erowded with well-defined plntes of amorphons calcareons deposit, inclosing the softer ports of the tomoor, which lost hod n portiolly lohuloted oppearance, the loboles possessing different characteristics. Some being of o grayish coloor, with bot little

coasistency, resembling cerebrifirm fangus; others mach firmer in structure, of reddish appearance, with hands of white cartilinginnss fibre traversing them in different directions. Quite large calcareous particles were distributed through the denser portion of the tumonr. Indeed, n section of any portion of the tomonr gave a gritty feel to the knife. Lustly, the trae musculnr texture of the uterus, nhant three lines in thickness, with the mucoas membrane of the nterine cavity, which presented small patches of ecchymnsis nn its ianer sarface.

Frnm this description it will be seen that the tumour rested within the museulnr purietes of the nterus. Splitting then, as it were, in its development, the nuter muscular layers forming its external covering, and the inner luyers preventing the eucrouchment of the tumonr upon the uterine cavity. The os and canal of the cervix were pervious, as also the left Fullopian tube. The right was pervious only about three lines from the aterine arifice.

The patient progressed well up to the fourth dny nfter the operation. There was hat little distension of the ahdomen, and not marked tenderness; not much thirst; the pulse varying fram 80 to 90. The hladder was kept empty by the catheter. On the third day n trifling discharge of healthy pas was naticed from the vagina. Small dases of calamel and apinm were prescribed as a prophylnetic, and to quiet the nervous system.

On the evening of the fourth day strong rigors supervened, and the putient's coudition changed rapidly for the worse, the stomach rejecting everything presented to it, whether of n liquid or solid form. The lower portion of the ubdomen hecnme swollen and tender, which soon extended itself over the entire peritoneal cavity. The pulse rose to 140, nud the ennnteanace of the patient assumed an anxions and distressed lonk, healthy supportation from the vagina gave way to an excessively fetid and sauions discharge. These symptams became steadily mare aggravated nutil her death, which occurred on the sixth dny after the operation.

In the way of treatment external irritants, as turpentine and emollient fomeutatious, were upplied over the ubdomen, without effect. Internal remedies were rejected us sonu as presented. Inhulations of salphuric ether nfforded summ relief to the distress of the putient. Her must painful sensution was u tenesmus, and ancoatrollable bearing down of the rectam. A long flexible catheter was intraduced into the gut without benefit. Mucilaginous iajectinns, combined with murphin and lne assafection, gave some palliation tn these symptoms.

Post-mortem examination six hours after death.-The wonad of the Fost-mortem examination six hours after death.—The would of the indumen had naited in its whole exteat, excepting at the point which had affinded escape for the ligature. There was considerable hat ant extranrdiunty inflution of the peritoueal cavity. The whole intestinul track, including the storanch, had a congested and inflamed appearance. Several small particles of ecchymosis were observed near the pylnric orifice of the stomach. The mucous cout of the rectum was deeply engorged and samewhat safteacd. Abnat \$\frac{3}{3}\text{nf}\$ in dark sanguineous fluid, mixed with cluts,

occopied the dependent portion of the peritoneal cavity. Bladder contracted, without urine. Vagian softened ood slongby. On examining the stump of the woned the ligatures were found partially lonsened fram their attachments by ulceratioo, ood its free eod covered by a small, half decomposed clot, which, when removed, showed the patent months of hloodressels.

There is little doubt that the remote cause of death was from secondory hemorrhage, which probably set in oo the fourth day after the operation. The compression oo the vessels becoming relaxed by the partial separation of the ligatores, hefore the plastic powers of ootore had closed the arteries firmly enough to withstand the ordinary force of the circulatioo. The proximate cause of death was connected with the decomposition of the clow withio the eavity of the peritocenm, and which led to the train of symptoms that afterward sopervened, and coold not be controlled.

This case presents several points of marked interest. It will be observed that oar original diagnosis, and as afterward proved to be the correct interpretation, was that the tomoor involved structurally the uterus itself. is to be recollected that the patient was order observation for nearly a year before her last pregnancy occurred; ood doriog this time, wheo we had every satisfactory evidence that the tomoor was not ottrihotable to prego agev, the existence of ballottement seemed to establish oor opioion conclusively. The sensation of ballottement indicates o weighty uteros, without determining the cause which has led to its increased weight. This must be settled by the colloteral history of the case; ood wheo the circomstances are such as to preclode the probability of pregnancy, it becomes o very important diagnostic sign for predicating the existence of ateriac tamoor. If the eavity of the oterus odmits of exomination by the uterine sound, of coorse the choracter of the tumour is more plainly fixed, os in climinating the presence of polypoid growths, or of fluid within the oterioe eavity, which mov lead to soch a distension of that orgae os to give folly the sensation of ballottement. A case of the latter description has falleo under oor observotion, and the simple introduction of o fine pointed gam-elastic bangic sufficed for the cure of the case, by uffording evocuation to o considerable quantity of a fetid serons flaid.

In this iostace, although the ateriac canal was pervious to the socod, it was wrongly sopposed that the cavity of the oterus had become dilated by the gradoal increase of the tomoor, as moy occor from unantural as well

os from oatoral caoses.

Not the least remarkable featore in her case was that she hod been oble to carry her fœtus to the full term, when such o large ood unyieldiog morhid mass had been located within the muscular parietes of the womb. In short, we were unwilling to admit the presumption of pregnoocy, ontil donht was removed by the sound of the fœtal heart. When the nbdomen beenme fully distended, as gestation advanced, the tumour oppeared to the eye, ood, indeed, as coold be easily felt by the hond, entirely distinct from the gravid womb, so that we were forced to the conclasion that the tumour

was disconnected with the body of the uterus, and that the ballottement at first noted arose from the close anatomical relations of the tamour to the uteras, probably resting ia juxtaposition with it, so as to readily convey by transmission the sense of bollottement to the tooch.

There are ohundant cases recorded, where it is demonstrated that the form and anatomical location of the tamour do not always conclusively indicate either the natare of the disease, or in what organs it may have specially originated. Ovarian atmours have not unfrequently simulated attrine tamours, and vice versá. Wa have known cancerons degeneration of the kidney mistaken for ovarian disease, and yet scarcely a doubt could exist that it was not ovarian prior to the operation. A saccessful case occurred here in the hands of an oid and experienced sargeon, who made abdominal section for ovarian disease. The tumour was found, however, to be a large fibrons tumour of the uteras, weighing several pounds, which was separated from its pedicle. The poticot mode o complete recovery from the operation.

In the present iastance it is worth remarking that the functional power of the uterus was curiously sustained, where the patient was able to hear a mattare child, notwithstanding the existence of an immense foreign growth, imbedded, as it were, in the masenlar parietes of the womb. In this concetion we would call attention to the healthy appearance of the left ovary, as contrasted with the shrunkea and atrophied condition of the right, associated with the complete obliteration of the corresponding Fallopian tube.

We oppend the following list of cases of obdominal section, with results

—a total of cleven cases, which probably includes all the operations of this
character made in California:—

Seven cases of ovarinn disease, of which six terminated fatally. In three of the seven cases the wound was closed without uttempt at removal of the tamour, on account of unusual complications. In one case the conteats of the cyst were purulent. In the seventh case (Dr. Nelsoa's) the patient made a perfect recovery, although the case appeared unfavourable, from extensive adhesions. One case of Cesarean operation (Dr. Cooper) successful. One case of fibrous tumoar of uterus (Dr. Nelson) successful. One case of carcinoma of oterus (the case here reported) fotal. One case of fungus hæmatodes of kidney, fatal.

These cases have generally been in the hands of fully competent and experienced surgeous; and the fatality, as far as ovarian disease is concerned (six out of seven cases), compares very unfavourably with the pablished statistical accounts of the success of this operation. A great deal has been said and written about the proper selection of cases for operative procedure. Experience, however, shows that the most skilful sargeous are likely to he in error in their selection of cases for operation, which heforehand, in a diagnostic point of view, may have afforded the most promising expectations of radical success. Besides, we have to coosider, whatever

mny have been the previous history of this class of cases, whether they have been under the treatment of empirics or the enlighteaed medical practitioner, when it comes to the question of an operation. Men of neknow-ledged ability and repatation is surgery are solicited to take charge of the patient; and do they always farnish a report of their unsuccessful cases as well as of their successfal? For our own part we are satisfied that the statistics of ovariotomy are catirely unreliable, because but a feeble fraction of the fatal cases are given to the public; whilst there is not a single successful operation that does not find its way, either directly or indirectly, into some of the medical periodicals of the day.

ART. III.—Two Cases of Reducible Inquinal Hernia operated on for the Radical Cure. By R. A. Kinloui, M. D., Surgeon of the Roper Hospital, Charleston, S. C. (With five wood-cuts.)

Case I. Humber, a untive of Germany, ett. 32, basket-maker, was admitted into the Roper Hospital Janaary 1, 1859, labouring under oblique inguinal hernia on the left side, occasioned by heavy lifting two mouths previously. Hus a weakly uppearance, with sallow complexion, and has long suffered from dyspepsia; but entered the hospital to be cured, if possible, of hernia. It was thought advisable first to improve his general health, and with this view he was treated with occasional merenrial laxatives, alkalies, and hitter tonics, together with generous diet and a liberal allownnee of porter.

January 22. Pntient's condition so mach improved that he was considered rendy for operation. Being recombent, and fully chloroformed, the operation was practised as follows: "A portion of the scrotal integrament was invaginated and pushed well ap into the inguiaal canal with the index finger of the left hand. A strong and slightly enrved needle, fixed to a hnadle and armed with a doable sutare of nancaled iron wire (No. 32) of proper length, was passed ap the invaginated integument, along the finger as n guide, to the internal riag, and made to perforate all the abdominal structures in front of the ingainnl cannl. The wire was then liberated from the eye of the needle by nn assistant, and the needle withdrawn. A second, third, fourth, fifth, and sixth panetare was then successively made in the same way as the first, and through each perforation was carried a double wire sutnre. These perforations were so placed that there were three to the left nad three to the right, so that the upper extremities of the sutures passed through the natero-lateral walls of the inguinal canal; each sature was separated from its neighbour of the same side by the distance of a third of nn inch, and from its neighbour of the opposite side by the distance of